IN THE CLAIMS

1	1. (currently amended) A method of using ultrasound to analyze a media of interest,
2	comprising the steps of:
3	transmitting a single set of [an] ultrasound pulse firings into the media of interest, the
4	ultrasound pulse firings being modified by the media of interest;
5	receiving at a transducer the modified ultrasound pulse firings;
6	generating signals in response to the received modified ultrasound pulse firings;
7	parallel processing the signals using a plurality of imaging modes; [[and]]
8	generating positional data responsive to the parallel processed signals; and
9	generating image data using the positional data, the image data having no visible
10	temporal anomalies.
1	2. (currently amended) The method of claim 1, wherein the step of generating positional data
2	includes area-forming.
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1	3. (currently amended) A method of using ultrasound to analyze a media of interest,
2	comprising the steps of :
3	transmitting a plurality single set of ultrasound pulse firings into the media of interest,
4	the ultrasound pulses pulse firings being modified by the media of interest;
5	receiving at one or more transducers the modified ultrasound pulses pulse firings;
6	generating analog signals in response to the received modified ultrasound pulses pulse
7	firings;
8	converting the analog signals to digital data using an A/D converter;
9	preprocessing the digital data using a plurality of frequency band preprocessors; [[and]]
10	generating positional data responsive to the preprocessed digital data; and
11	generating image data using the positional data, the image data having no visible
12	temporal anomalies.

- 4. (currently amended) The method of claim 3, wherein digital data resulting from an 1 2 individual member of the plurality single set of ultrasound pulses pulse firings is 3 processed using a plurality of imaging modes. 5. (cancelled) 1 1 6. (currently amended) The method of claim 3, wherein the step of preprocessing the digital 2 data is preprocessed in parallel. 1 7. (original) The method of claim 3, wherein the positional data is generated using echo-2 forming. 1 8. (original) The method of claim 3, wherein the positional data is generated using echo-2 forming and the echo-forming uses an area-forming module that includes a plurality of 3 area-formers. 9. (currently amended) The method of claim 3, further including the step of comprising 1 2 providing preprocessed digital data to one or more members of a plurality of area-3 formers from one or more members of the plurality of frequency band preprocessors. 1 10. (currently amended) The method of claim [[6]] 3, further including the step of comprising 2 providing the positional data to an image scan converter, wherein the positional data is 3 generated using a plurality of imaging modes.
- 1 11. (currently amended) The method of claim 10, further including the step of comprising generating image data using the image scan converter and the positional data.

1	12. (currently amended) The method of claim 10, further including the step of comprising
2	generating image data using the image scan converter and the positional data, wherein
3	the image data is visibly temporally synchronized.
1	13. (currently amended) The method of claim [[6]] 3. wherein the step of preprocessing the
2	digital data is performed using a plurality of imaging modes.
1	14. (original) The method of claim 13, wherein the plurality of imaging modes includes
2	Doppler imaging.
1	15. (original) The method of claim 13, wherein the plurality of imaging modes includes
2	imaging using harmonic frequencies.
1	16. (currently amended) The method of claim 3, wherein the step of preprocessing the digital
2	data is done in parallel, and
3	the plurality of frequency band preprocessors are responsive to encoding within the
4	digital data.
1	17. (currently amended) The method of claim 3, further including the step of comprising post-
2	processing the positional data in parallel using a plurality of post-processors.
1	18. (currently amended) An ultrasonic analysis system comprising:
2	an ultrasound transducer for transmitting a single set of ultrasound pulses pulse firings
3	into a media of interest such that the media of interest modifies the ultrasound
4	pulses <u>pulse firings</u> ;
5	a transducer for receiving the modified ultrasound pulses pulse firings and generating
6	signals responsive to the modified ultrasound pulses pulse firings;
7	a plurality of frequency band preprocessors for preprocessing the signals in parallel; and

8	an echo-forming system for generating positional data responsive to the preprocessed
9	signals[.]; and
10	an image converter system for generating image data using the positional data, the
11	image data having no visible temporal anomalies.
1	19. (original) The system of claim 18, wherein the echo-forming system includes a plurality of
2	beamformers configured to receive signals preprocessed using a plurality of imaging
3.	modes.
1	20. (original) The system of claim 18, wherein the echo-forming system includes an area-
2	forming module.